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Figure 10

F. F EX ·Řģ ER Q n 5 5 3 % 京 3 3 1 2 X S 37 lys . 15 13 5-3 E 3 ξ P. : 2 3 3 % S ğ ម្ភ þ 1 23 35 हें दे 35 E ä 55 FI ž ž Ę 京る 55 ¥ 8 3 E हु न 8 : 13 B इ इ 3 3 % 35 83 日 E ខ្មុំ 3 B 3 ध्र ध्र S = 33 3 5 X ž ż 答言 £ 3 g 2,2 3.3 इड 414 35 ¥ a 50 y g g 38 Ħ 917 ₽ ₽ ð i ង្ ij ង រ g g li ü \S g g 片系 3 なる a g **807** þ ኧ arg 25 517 Ę 3 E ă g asm gle tyr B 12 51 ate les les oly 7. TAC ATT TAC ANC ANC GAG See assa gle val ser les 14. 15. 15. उस उस्ट भरा THE ATE GAT phe ile asp St. 18 138 BE פוא בנו נים phe leu 1761/1163 5001/2001 6091/2031 1971/1815 5461/1921 5551/1851 5641/1881 5271,7091 1971/1768 6361/2121 2 le: 3 3 ij E ğ 205 373 XX ¥ 35 2 2 k 3 ğţ 3.2 E 3 2 F # ξ. Ŗ 4 £ *** ä 37.5 <u>ع</u>.. ppe leu 25.7 3 5 5 917 ŧ និនិ g g ti 2 हुं दें Ë F A X E g १ से £ 5 38 EZ 38 8 3 K Z 3 3 ម្តី មិ អូដូ ម៉ូ ដ្<mark>រ</mark> F १ ६ 设设 8 B Ŕij Ęä EZ 12 3 5 E A 52 -E Z S 百节 3 Z 탈넴 以言 ð H BR 13 GAT ZAT Ben 용함 2 3 § \$ X 5 38 XIX Lie ¥ ii مالع E 3 र्व श EK 8 6 र् रे csc cct the lys 3.8 ថ្ម រួ 百年 E s L: 3 ă 35 **511 133** ţ हें हे TIT THE CTT AND GOT phe ser les ass als 6 1 X S Į. Ä g ğ ţ 4 6 33 413 Ä ner are and and ser als siv siv ឥ Š દુ 5431/1811 CAC TET CAG 3 Eds ser glu 1 ala tyr och באג האג דדד pbe as as as and the tea म्या स्था स्थ אדו איני דונ 11e 1ys ser 75 AG 750 ser thr ser क्ष्य स्थ ala ero the ९८ ६८ ग्रा 130 אכני אבר פינר ery ile va! 14 St 15 5881/1961 5251/1751 1061/1015 5791/1931 1961/1665 5341/1781 5611/1871 6061/2021 6241/2081 521/184 Ŗ E. ANT ANA Esn 1ys 210 E Ę EZ ង្គ ខ្ម ខ្ជ 抚 Ę g 517 ţ 917 3 25 <u> 1</u>1¢ 917 ሯ Ž ¥ धु 25 NA E 8 3 leu 7 5 1 × × ile 设设 537 ş 5 25 5 计计 밝얼 Ę E ţ g ¥ 23 设设 ATC HE 53 \mathfrak{F} 917 g g हुं दें 5 E 3 हुनु g a EZ 下 3 žg रूप्त EZ S i 英品 162 53 हुं हें 35 हरी H å F. & 5 8 E 3 民員 E F 517 Kä 1; g g g **3** C **3** C **3** 38 វូ ដូ 02:0) is 25. 25.00 8 **4 4** 以 Š ij Ea 33 F g z 8 % t i ង្ក E 3 Ę हें हैं gat נוא EB E F Į:] [ţ VAl G ser glu pre net ala E Ca 3 TXT 8 3 5 E z S g lys pro 11e ala g ż į TEC CAA CES ATG ş Ŗ נננ 7 est pro esp tyr שאם מכנ אוב phe ser ala ser 5851/1951 esn OPA leu asp 3 \$671/1891 TOT TCA TITE Cys OPA phe 1 5761/1921 5941/1981, TTC GTT TGT (ANG GOC GGC 1yrs gly gly g क्र १६ १६ gly 92y 30 83 le pro asp म्म स्ट्र ०० まない क्ष दत्र गद STG ATC the val cys gln pre ser KE EE SE SE EE 200 CTT GR 1978 1940 VII 5221/1741 5581/1861 1081/1095 5491/1831 6031/2011 6:21/2041 6301/2101 6211/207

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. ţ ż Eš ¥ 5 8= 5 5 Þ 35 13 E 32 Ę E ត្ត ដូ gly Ę 32 3.5 3 gly 110 以出 SE E ţ ij j g 5 g ð F. F 3 ğ 4 E 917 g Ş Eš E to the 살성 Jeu E. ठ्र हुं नु Fiá ATA 11e z f 3 :1 ₹ 3 13 र्र इ g 217 1 1 K .; ម្រឹះ 8 4 E ¥ 百百 BE z Ę 919 917 E Ę ð 4 E ser les ľ র Jec 8 gly E E E £ 5 £ 5 ·y 3 Ę Ş 감 ß g 701 ţ thr glu gly (ACG CCG ATA ANA ACG TICS Iya the ser אבי אדי אבא אבי אבי וו ווי ווי ווי פרב tro acc cor les the gly ile val 110 रेंद्र इस व्य श्र भः स्थ als ser als אל דדד ero ele CA STC ATC אר: מנא אר: 11. CS. 17. ATA ATC AVC lie ile een 3 R 8 بعز جائ ह्म हर क्र cly cly Jes and the ale asp 6731/3341 6991/2331 1531/1511 7621/2541 68:1/2271 1081/1361 6631/2211 1261/1921 1171/2391 7441/2481 5541/21E1 7351/2451 B K 517 z ç 3 Tet Tet Tet Ieu Ieu ser I ß. ij 2 **ç**1y 919 515 :17 ঠ্ נג ម្ភ j the cys TX 3 35 ¥ ß 8 ß Z ß phe 2 : K.Z .. ¥ X 33 3 4 ž ž ţ 3 ß 917 E 12 8 44 3 = Siy E Ř.ÿ 53 XX = £3 8 3 \$ i 百百 3 5 3 3 BP g 0.10 当 Fi 13 517 g 414 9.0 ţ į 百百 F 3 13 13. 2 र्घ ह 日音 F # g 音が 뱕냋 र्ध व ₹ ¥ 智家 35 aly 8 3 g a 8 5 ह ह 3 % E 4 8 ţ I 35 917 Ę çly 757 ₹ ÿ ધુ 5 Ę Ž. E 3 % 4 13 g g g 4.3 ठ्र श Ř ģ E Cys lys asm o sly ĭ F F P : ઇ **₹**.5 ğ g Ë 3 Ŀ Ē 星 Ą 7,77 § § Z sly ele j ij y glu tyr lys s 6961/2321 1321/2441 AMC TEC AMA A 7141/2381 THG TCS TAX 2 Jeu ser OCH 2 70\$1/23\$1 505 305 305 leu ere lys 2 ale giy ser ser chr 8 (3 ביא דונ אים Š 30,55 おお X X ₹ X 3 हैं 36. 16. glu leu 91y ale 91 6781/2261 9!y the 51 6971/229! 1231/2611 1591/2531 17171 6601/2201 1622/1699 1411/2471 1501/2501 ¥ 5 3 **517** 6511 ţ g **Val** ¥ 5 4 E 7 S * K R 513 CTA TEA Low lea ţ 13.3 53 7 e s ี่ยี 8.3 1 =: 33 ž ž R 51y 91y EZ 25.25 3 5 <u>5</u> 8 : ğ 13 010 F 3 t 日間 받 3 % \$ 5. Ħ= ATA TTA ile leu 5 3 4 18 23 917 g is **\$ 8** なる 34 취감 ž B 片력 1: 4 长女 Ed Ř i 5,7 ۲۲5. ĸ 83 ă 5 Ę R B ie 3 g EZ e z हें हैं 35 支出 z g के के 먑 5 # 包貨 F3 ð 3 . ţ * R 5 おれ 36: 日日 芦荟 R R ស្ត ខ្ព なる 5 3 917 ę, 517 8 ij ह 5.5 * 857 દ્વ Ę: 3 33 Į į (2 P. S 53 23 3 5 116 Ş ð 917 ¥ Ş B E 5 217 ¥ 2 \$ **3** 员当 E g ال ال Þ 84 y Fig cye als see ET 91y 91y : 6931/2311 25A TTT 2AC 2 6341/228: .tc cer cer 11e phe esm 7021/234: XCA CCA TTG : 1378 ary thr. 1201/2401
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रु न E H 82 5 វ៉ ₹Ÿ AR 1 is s e c 83 13 3 7 e a B Þ þ. 3 g 4 5 z Ļ t BB K 2 ğ 5 Š हैं में ¥ 퉏 E Fig] g क्ष वस प्र श E 볽 7 ž E धू 3 ğ t ţ 7 岩女 প্ত 京品 365 ğ) ser F 3 3 i i 8 8 g 3 600 ष्ट्र pro 8 2 g g 940 5 8 g g OPA 7 j g pro į 5 416 çly g F ይ ð 0:0 171 ß ន ţ 414 3 Ç g 3 ij ij ધુ 3 276 ¥ g g g Ä ध्र ţ র্ ļ 5 2 E E 충 3 ţ 917 ğ E 2 ğ 3 CH 7 3 3 3 g 3 esn his gly his gly val pro asn gly cys ply glu ANG OCC AOC ANA lys als ser lys lay ale ele que E g סבל לבס כלום סבל Ę 8 ţ 300 7 Ş ij t ב क्ष्य क्षेत्र क्ष 30 CC 63 अर द्रम् ME GAS TOO क्ट गर क्ट 30000 clu ser 35. AT. 150 COC 151 ACC tre eve erre क्र कर रहा सम मह ser ser OPA CC TTC CTA कर मा अव es le ly CH M CH ser pro thr clu lee val 8251/2751 1961/1661 8071/2691 8161/2721 3521/2841 8341/1781 8431/2811 8701/2901 1791/2911 1962/1/60 8611/2871 8681/2961 3 3 683 J न्त E ទូ ព្រ ij 2 Ť ile Ė 뢵 3 3 2 E Ę. ¥ ľ £ E 3 3 2 ₹ val ķ Ë ř Ë 17. Ë Stt 2 % 3 clo Bi ង រ 75 707 ale **ទី ទិ** Š ¥ & ģ ij ij ť 3 ₹ <u>₹</u> K 15 82: 2:T. 999 11e 1 f. S 515 g 3 £ 3 2 ă g g H Fi ¥= j 15 6 R 3 まる 32 T S . <u>R</u> E 3 Ŗ. BH ķ ģ g -1 र् भ Ä -: ţ 8 3 K f H 270 ij ga D A 3 r S a B g g ध्र भ्र B 53 ij ş ă 3 ß ξ. 3 Ķ ð 7 另刻 2 K lev ile als his sis val E B G ध Ş 3 gle ij 1 E ξ g. [3 7,5 ğ ß 3 14 3 E 7 ધુ K 3 4 F ser als pro leu the 3 ŲΞ tyr pro Sly ret gly phe 45 S :: g ķ 3 2 nts cad ato रू r, ţ 3 g f K B रम क्या मि leu glu ale pro র্ ğ Ä ğ रूप ८८ ४८ अस स्ट स्थ אל אנו אנו esp ile lys ser ary glu 51y 11e chr als pro स्र शि दर BC 88 38 الما حم ملا क्र क क SSC ATA ACE स्त हर स्त म्ह स्म क्र 经路路 तर भेष्र दिन श्री हर हो। gle er 計 Sys 023 ななな ler oc 1292/1961 8041/2661 6131/27:1 8221/2741 1772/1169 8451/2931 8761/2921 8401/2801 1981/2551 8581/2861 6671/2891 8851/2951 E 10 3 77 ¥ וָבּה รู Þ ξ ध्र द्व Ę Jeu pro 3 212 6 E ğ Ä ម្ត ዩ leu ser 臣员 E 2 4 F. g 女台 g Ų ä ä Į. ႘ွ 419 र्व स E ŧ Z ATA 116 Ř E 1 917 g B K g **3** 5 7 7 0110 ij ¥ 3 7 B 88 ķ ä Ą ß 83 8 gt 8 6 ន្ត ដ र् मु 7 Fa f FH đ ¥. חום 8 3 3 ጟ Få 16:3 aria Pri r, E វូ e ii Į: 8 C 83 K. & E ij EF 经音 ह इ ¥ 35 8 13 5 3 H TXT ţ 910 ķ. Ş S is P = ŧ なが 375 4 K į 13 7 H 7 3 818 pro ង 3 467 3 ţ ğ 517 g gly ß Ë รี 5 pro Þ 8 F g g 3 ย g a 3 ሯ 47 ij 3 ķ E ጀ E 12 3 8 ל អូ ij the lee giu gly K E 5 ¥ 3 ર્શ f 吳島 g Ī lee his 25 11 25 tyr aly les ile val ile DI: 450 DAT B 15 3 his val ser אדר סדר איני な話な]es 1:3 ביד דב פוא erg pro arg CC CC TXT gln esp tyr הכא ההם הזם פני פני וציי 3 AST 550 534 B בכד דבר אכ pro phe ser भट्टा ठाउँ इंटर टाउँ रिंड राज व्रीव क्षा प्रदा अप 23 550 20 22 25 3 50 50 · 1082/1798 8551/2851. 8291/2761 1791/1108 7931/2611 1921/2641 8101/2701 1172/1618 8371/2791 8461/2821 1162/1678 8821/2941 1782/1161 ğ Val

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TEA GGC GCC AUT CUE CAT TEA GOC TE
10441/3481
GAT GTG CTG CAA GGC GAAT IAA GTT GG
AND WALL IEU SAA GTY GGT GAAT TAA GTY GG
AND WALL IEU SAA GYA GAY GAY GAY GAY GYY GAY 10261/3421

Figure 11

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								10/3								
DNA	seq	uenc	e 10	511	b.p.	AAG	CITT	ACTC	G	ACGG	CCAG	TGCC	lir	ear		
aag Lys 1	ctt Leu	tac Tyr	tcg Ser	taa OCH 5	agc Ser	gag Glu	ttg Leu	aag Lys	gat Asp 10	His	att Ile	tag AMB	Leu	cgt Arg 15	tta Leu	48
					agc Ser									Trp		96
aac Asn	tat Tyr	tta Leu 35	caa Gln	tgc Cys	ggc	caa Gln	gtt Val 40	ata Ile	aaa Lys	gat Asp	tct Ser	aat Asn 45	ctg Leu	ata Ile	tgt Cys	144
				_	cgg			_						_	_	192
_	-	_			gca Ala 70	_	_							_		240
					tta Leu											288
					ggc											336
cag Gln	act Thr	ttg Leu 115	ccg Pro	cct Pro	gaa Glu	agc Ser	ata Ile 120	gtt Val	caa Gln	gaa Glu	ttt Phe	att Ile 125	gac Asp	acg Thr	gta Val	384
aaa Lys	gaa Glu 130	ttt Phe	aca Thr	gaa Glu	aag Lys	tgt Cys 135	ccc Pro	ggc Gly	atg Met	ttg Leu	gtg Val 140	ggc	gtg Val	cac His	tgc Cys	432
aca Thr 145	cac His	ggt Gly	Ile	Asn	cgc Arg 150	Thr	ggt Gly	tac Tyr	Met	gtg Val 155	ayO	aga Arg	tat Tyr	tta Leu	atg Met 160	480
cac His	acc Thr	ctg Leu	ggt Gly	att Ile 165	gcg Ala	ccg Pro	cag Gln	gaa Glu	gcc Ala 170	ata Ile	gat Asp	aga Arg	ttc Phe	gaa Glu 175	aaa Lys	528
gcc Ala	aga Arg	ggt Gly	cac His 180	aaa Lys	att Ile	gaa Glu	aga Arg	caa Gln 185	aat Asn	tac Tyr	gtt Val	caa Gln	gat Asp 190	tta Leu	tta Leu	576
att Ile	taa OCH	tta Leu 195	ata Ile	tta Leu	ttt Phe	gca Ala	ttc Phe 200	ttt Phe	aac Asn	aaa Lys	tac Tyr	ttt Phe 205	atc Ile	cta Leu	ttt Phe	624
tca Ser	aat Asn 210	tgt Cys	tgc Cys	gct Ala	tct Ser	tcc Ser 215	agc Ser	gaa Glu	cca Pro	aaa Lys	cta Leu 220	tgc Cys	ttc Phe	gct Ala	tgc Cys	672

Figure 2A

tcc Ser 225	gtt Val	tag AMB	ctt Leu	gta Val	gcc Ala 230	gat Asp	cag Gln	tgg Trp	cgt Arg	tgt Cys 235	tcc Ser	aat Asn	cga Arg	cgg Arg	tag AMB 240	720
gat Asp	tag AMB	gcc Ala	gga Gly	tat Tyr 245	tct Ser	cca Pro	cca Pro	caa Gln	tgt Cys 250	tgg Trp	caa Gln	cgt Arg	tga OPA	tgt Cys 255	tac Tyr	768
gtt Val	tat Tyr	gct Ala	ttt Phe 260	ggt Gly	ttt Phe	cca Pro	cgt Arg	acg Thr 265	tct Ser	ttt Phe	ggc	cgg Arg	taa OCH 270	tag AMB	ccg Pro	816
taa OCH	acg Thr	tag AMB 275	tgc Cys	cgt Arg	cgc Arg	gcg Ala	tca Ser 280	egc Arg	aca Thr	aca Thr	ccg Pro	gat Asp 285	gtt Val	tgc Cys	gct Ala	864
tgt Cys	ccg Pro 290	cgg Arg	ggt Gly	att Ile	gaa Glu	ccg Pro 295	cgc Arg	gat Asp	ccg Pro	aca Thr	aat Asn 300	cca Pro	cca Pro	ctt Leu	tgg Trp	912
caa Gln 305	cta Leu	aat Asn	cgg Arg	tga OPA	cct Pro 310	gcg Ala	cgt Arg	ctt Leu	ttt Phe	tct Ser 315	gca Ala	tta Leu	ttt Phe	cgt Arg	ctt Leu 320	960
tct Ser	ttt Phe	gca Ala	tgg Trp	ttt Phe 325	cct Pro	gga Gly	agc Ser	cgg	tgt Cys 330	aca Thr	tgc Cys	ggt Gly	tta Leu	gat Asp 335	cag Gln	1008
	tga OPA															1056
	tgg Trp															1104
	ttt Phe 370															1152
	tcg Ser															1200
	tga OPA															1248
	ctt Leu															1296
Thr	tca Ser	0CH 435	Ser	Ala	Glu	Ser	Arg 440	Arg	Ile	AMB	OCH	OPA 445	Ala	Leu	Tyr	1344
	gct Ala 450	Ala														1392

Figure 2B

							ı	213	9							
tag AMB 465	ggc Gly	ccc Pro	cat His	ttt Phe	gga Gly 470	tgg Trp	tct Ser	gct Ala	caa Gln	ata Ile 475	acg Thr	att Ile	tgt Cys	att Ile	tat Tyr 480	1440
tgt Cys	cta Leu	cat His	gaa Glu	cac His 485	gta Val	tag AMB	ctt I	tat .eu 7	cac Cyr I 490	aaa lis I	ctg Lys I	tat Seu 1	att Yyr 1	tta [le I 495	aac Jeu A	1488 sn
tgt Cys	tag AMB	cga Arg	cgt Arg 500	cct Pro	tgg Trp	cca Pro	cga Arg	acc Thr 505	gga Gly	cct Pro	gtt Val	ggt Gly	cgc Arg 510	gct Ala	cta Leu	1536
gca Ala	cgt Arg	acc Thr 515	gca Ala	ggt Gly	tga OPA	acg Thr	tat Tyr 520	ctt Leu	ctc Leu	caa Gln	att Ile	taa OCH 525	att Ile	ctc Leu	caa Gln	1584
ttt Phe	taa OCH 530	cgc Arg	gag Glu	cca Pro	ttt Phe	tga OPA 535	tac Tyr	acg Thr	tgt Cys	gtc Val	gat Asp 540	ttt Phe	gca Ala	aca Thr	act Thr	1632
att Ile 545	gtt Val	ttt Phe	taa OCH	cgc Arg	aaa Lys 550	cta Leu	aac Asn	tta Leu	ttg Leu	tgg Trp 555	taa OCH	gca Ala	ata Ile	att Ile	aaa Lys 560	1680
tat Tyr	999 Gly	gga Gly	aca Thr	tgc Cys 565	gcc Ala	gct Ala	aca Thr	aca Thr	ctc Leu 570	gtc Val	gtt Val	atg Met	aac Asn	gca Ala 575	gac Asp	1728
ggc	gcc Ala	ggt Gly	ctc Leu 580	ggc Gly	gca Ala	agc Ser	ggc' Gly	taa OCH 585	aac Asn	gtg Val	ttg Leu	cgc Arg	gtt Val 590	caa Gln	cgc Arg	1776
ggc Gly	aaa Lys	cat His 595	cgc Arg	aaa Lys	agc Ser	caa Gln	tag AMB 600	tac Tyr	agt Ser	ttt Phe	gat Asp	ttg Leu 605	cat His	att Ile	aac Asn	1824
ggc	gat Asp 610	ttt Phe	tta Leu	aat Asn	tat Tyr	ctt Leu 615	att Ile	taa OCH	taa OCH	ata Ile	gtt Val 620	atg Met	acg Thr	cct Pro	aca Thr	1872
act Thr 625	ccc Pro	cgc Arg	ccg Pro	cgt Arg	tga OPA 630	ctc Leu	gct Ala	gca Ala	cct Pro	cga Arg 635	gca Ala	gtt Val	cgt Arg	tga OPA	cgc Arg 640	1920
											ggt Gly					1968
											ccg Pro					2016
			Arg								ggc					2064
		Ser									tgg Trp 700					2112

Figure 2C

acg Thr 705	tcc Ser	gaa Glu	cgt Arg	tga OPA	ttt Phe 710	gca Ala	tgc Cys	aag Lys	ccg Pro	aaa Lys 715	tta Leu	aat Asn	cat His	tgc Cys	gat Asp 720	2160
tag AMB	tgc Cys	gat Asp	taa OCH	aac Asn 725	gtt Val	gta Val	cat His	cct Pro	cgc Arg 730	ttt Phe	taa OCH	tca Ser	tgc Cys	cgt Arg 735	cga Arg	2208
tta Leu	aat Asn	cgc Arg	gca Ala 740	atc Ile	gag Glu	tca Ser	agt Ser	gat Asp 745	caa Gln	agt Ser	gtg Val	gaa Glu	taa OCH 750	tgt Cys	ttt Phe	2256
ctt Leu	tgt Cys	att Ile 755	ccc Pro	gag Glu	tca Ser	agc Ser	gca Ala 760	gcg Ala	cgt Arg	att Ile	tta Leu	aca Thr 765	aac Asn	tag AMB	cca Pro	2304
tct Ser	tgt Cys 770	aag Lys	tta Leu	gtt Val	tca Ser	ttt Phe 775	aat Asn	gca Ala	act Thr	tta Leu	tcc Ser 780	aat Asn	aat Asn	ata Ile	tta Leu	2352
tgt Cys 785	atc Ile	gca Ala	cgt Arg	caa Gln	gaa Glu 790	tta Leu	aca Thr	atg Met	cgc Arg	ccg Pro 795	ttg Leu	tcg Ser	cat His	ctc Leu	aac Asn 800	2400
acg Thr	act Thr	atg Met	ata Ile	gag Glu 805	atc Ile	aaa Lys	taa OCH	agc Ser	gcg Ala 810	aat Asn	taa OCH	ata Ile	gct Ala	tgc Cys 815	gac Asp	2448
gca Ala	acg Thr	tgc Cys	acg Thr 820	atc Ile	tgt Cys	gca Ala	Arg cgc'	gtt Val 825	ccg Pro	gca Ala	cga	gct Ala	ttg Leu 830	att Ile	gta Val	2496
ata Ile	agt Ser	ttt Phe 835	tac Tyr	gaa Glu	gcg Ala	atg Met	aca Thr 840	tga OPA	ccc Pro	ccg Pro	tag AMB	tga OPA 845	caa Gln	cga Arg	tca Ser	2544
cgc Arg	cca Pro 850	aaa Lys	gaa Glu	ctg Leu	ccg Pro	act Thr 855	aca Thr	aaa Lys	tta Leu	ccg Pro	agt Ser 860	atg Met	tcg Ser	gtg Val	acg Thr	2592
													cag Gln			2640
													aac Asn			2688
Ser	Pro	Leu	11e 900	Arg	Ala	Ser	Cys	Leu 905	Asp	Lys	Lys	Ala	aca Thr 910	Tyr	Leu	2736
Ile	Asp	Pro 915	Asp	Asp	Phe	Ile	Asp 920	Lys	Leu	Thr	Leu	Thr 925	cca Pro	Tyr	Thr	2784
		Tyr					Leu						ctg Leu			2832

Figure 2D

tac atg ct Tyr Met Le 945	g tta acg 1 Leu Thr	gct ccg Ala Pro 950	ccc act Pro Thr	att aat Ile Asn 955	gaa att Glu Ile	aaa aat tcc Lys Asn Ser 960	2880
aat ttt aa Asn Phe Ly	a aaa cgc s Lys Arg 965	Ser Lys	aga aac Arg Asn	att tgt Ile Cys 970	atg aaa Met Lys	gaa tgc gta Glu Cys Val 975	2928
gaa gga aa Glu Gly Ly	g aaa aat s Lys Asn 980	gtc gtc Val Val	gac atg Asp Met 985	ctg aac Leu Asn	aac aag Asn Lys	att aat atg Ile Asn Met 990	2976
cct ccg tg Pro Pro Cy 99	s Ile Lys	Lys Ile	ttg aac Leu Asn 1000	gat ttg Asp Leu	aaa gaa Lys Glu 1005	aac aat gta Asn Asn Val	3024
ccg cgc gg Pro Arg Gl 1010	c ggt atg y Gly Met	tac agg Tyr Arg 1015	aag agg Lys Arg	Phe Ile	cta aac Leu Asn 1020	tgt tac att Cys Tyr Ile	3072
gca aac gt Ala Asn Va 1025	g gtt tcg l Val Ser	tgt gcc Cys Ala 1030	aag tgt Lys Cys	gaa aac Glu Asn 1035	cga tgt Arg Cys	tta atc aag Leu Ile Lys 1040	3120
gct ctg ac Ala Leu Th	g cat tto r His Phe 1045	Tyr Asn	His Asp	tcc aag Ser Lys 1050	tgt gtg Cys Val	ggt gaa gtc Gly Glu Val 1055	3168
atg cat ct Met His Le	t tta ato u Leu Ile 1060	aaa tcc Lys Ser	caa'gat Gln Asp 1065	gtg tat Val Tyr	Lys Pro	cca aac tgc Pro Asn Cys 1070	3216
caa aaa at Gln Lys Me 107	t Lys Th	gtc gac Val Asp	aag ctc Lys Leu 1080	tgt ccg Cys Pro	ttt gct Phe Ala 1085	ggc aac tgc Gly Asn Cys	3264
aag ggt ct Lys Gly Le 1090	c aat cc	att tgt Dile Cys 1095	Asn Tyr	OPA Ile	ata aaa Ile Lys 1100	caa tta taa Gln Leu OCH	3312
atg cta aa Met Leu As 1105	it ttg tti in Leu Pho	ttt att Phe Ile	aac gat Asn Asp	aca aac Thr Asn 1115	caa acg Gln Thr	caa caa gaa Gln Gln Glu 1120	3360
cat ttg ta His Leu Al	ig tat ta IB Tyr Ty: 112	r Leu OCH	Leu Lys	acg cgt Thr Arg 1130	agt tat Ser Tyr	aat cgc tga Asn Arg OPA 1135	3408
ggt aat a Gly Asn I	t taa aa Le OCH As: 1140	t cat ttt n His Phe	caa atg Gln Met 1145	Ile His	Ser OCH	ttt gcg aca Phe Ala Thr 1150	3456
	ne Tyr Ph					ctt ctt ctt Leu Leu Leu	

Figure 2E

tat tat cgt atc cat at Tyr Tyr Arg Ile His Il 1185 119	e Cys Ile Tyr Arg	ata gag taa att ttt tgt g Ile Glu OCH Ile Phe Cys 1195 1200	3600
tgt cat aaa tat ata tg Cys His Lys Tyr Ile Cy 1205	t ctt ttt taa tgg s Leu Phe OCH Trp 1210	g ggt gta tag tac cgc tgc o Gly Val AMB Tyr Arg Cys o 1215	3648
gca tag ttt ttc tgt aa Ala AMB Phe Phe Cys As 1220	t tta caa cag tgo n Leu Gln Gln Cys 1225	tat ttt ctg gta gtt ctt Tyr Phe Leu Val Val Leu 1230	3696
cgg agt gtg ttg ctt ta Arg Ser Val Leu Leu OC 1235	a tta tta aat tta H Leu Leu Asn Leu 1240	a tat aat caa tga att tgg 1 Tyr Asn Gln OPA Ile Trp 1245	3744
gat cgt cgg ttt tgt ac Asp Arg Arg Phe Cys Th 1250	a ata tgt tgc cgg r Ile Cys Cys Arg 1255	g cat agt acg cag ctt ctt g His Ser Thr Gln Leu Leu 1260	3792
	s Phe Leu Ala Ala	a ccg gat taa cat aac ttt a Pro Asp OCH His Asn Phe 1275 1280	3840
		a aca gtt cac ctc cct ttt s Thr Val His Leu Pro Phe l295	3888
		tgt taa aaa taa cag cca Cys OCH Lys OCH Gln Pro 1310	3936
		a aac tgg aaa tgt cta tca r Asn Trp Lys Cys Leu Ser 1325	3984
		taa aat gat aac cat ctc 1 OCH Asn Asp Asn His Leu 1340	4032
	e Tyr Cys Phe Arg	aac agt ttt gta ata aaa Asn Ser Phe Val Ile Lys 1355 1360	4080
aaa cct ata aat att cc Lys Pro Ile Asn Ile Pr 1365	g gat tat tca tac o Asp Tyr Ser Tyr 1370	c cgt ccc acc atc ggg cgc c Arg Pro Thr Ile Gly Arg 1375	4128
		c caa ggc ttc aat aag gaa s Gln Gly Phe Asn Lys Glu 1390	4176
His Thr Ser Lys Met Va 1395	l Ser Ala Ile Val	tta tat gtg ctt ttg gcg Leu Tyr Val Leu Leu Ala 1405	4224
gcg gcg gcg cat tct gc Ala Ala Ala His Ser Al 1410	c ttt gcg gcg gat a Phe Ala Ala Asp 1415	cett gga tee cat cat cac Leu Gly Ser His His His 1420	4272

Figure 2F

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cac cac cac att gaa gga aga gaa ttc cag gtc caa ctg cag cag tct His His His Ile Glu Gly Arg Glu Phe Gln Val Gln Leu Gln Gln Ser 1425 1430 1435 1440	4320
ggg gct gaa ctg gca aaa cct ggg gcc tca gtg aag ctg tcc tgc aag Gly Ala Glu Leu Ala Lys Pro Gly Ala Ser Val Lys Leu Ser Cys Lys 1445 1450 1455	4368
gct tct ggc cac acc ttt act agc tac tgg atg cac tgg gta aaa cag Ala Ser Gly His Thr Phe Thr Ser Tyr Trp Met His Trp Val Lys Gln 1460 1465 1470	4416
agg cct gga cag ggt ctg gaa tgg att gga tac att aat ctt agc agt Arg Pro Gly Gln Gly Leu Glu Trp Ile Gly Tyr Ile Asn Leu Ser Ser 1475 1480 1485	4464
ggt tat att aag tac aat cag gag ttc aag gac aag gcc aca ttg act Gly Tyr Ile Lys Tyr Asn Gln Glu Phe Lys Asp Lys Ala Thr Leu Thr 1490 1495 1500	4512
gca gac aaa tcc tcc aac aca gcc tac atg cat ctg agc agc ctg aca Ala Asp Lys Ser Ser Asn Thr Ala Tyr Met His Leu Ser Ser Leu Thr 1505 1510 1515 1520	4560
tat gag gac tct gca gtc tat tac tgt gca agg gca gct cag gct acg Tyr Glu Asp Ser Ala Val Tyr Tyr Cys Ala Arg Ala Ala Gln Ala Thr 1525 1530 1535	4608
acc ttt gac tac tgg ggc caa ggc acc act ctc aca gtc tcc tca ggt Thr Phe Asp Tyr Trp Gly Gln Gly Thr Thr Leu Thr Val Ser Ser Gly 1540 1545 1550	4656
gga ggc ggt tca ggc gga ggt ggc tct ggc ggt ggc gga tcg gac att Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Asp Ile 1555 1560 1565	4704
gtg atg atc cag tct cac aaa ttc atg tcc aca tca gta gga gac agg Val Met Ile Gln Ser His Lys Phe Met Ser Thr Ser Val Gly Asp Arg 1570 1575 1580	4752
gtc agc atc acc tgc aag gcc agt cag gat gtg agt act gct gta ggc Val Ser Ile Thr Cys Lys Ala Ser Gln Asp Val Ser Thr Ala Val Gly 1585 1590 1595 1600	4800
tgg tat caa caa aaa cca ggg caa tct cct aaa cta ctg att tac tgg Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile Tyr Trp 1605 1610 1615	4848
gca tcc acc cgg cac act gga gtc cct gat cgc ttc aca ggc agt gga Ala Ser Thr Arg His Thr Gly Val Pro Asp Arg Phe Thr Gly Ser Gly 1620 1625 1630	4896
tct ggg aca gat tat act ctc acc atc agc agt gtg cag gct gaa gac Ser Gly Thr Asp Tyr Thr Leu Thr Ile Ser Ser Val Gln Ala Glu Asp 1635 1640 1645	4944
ctg gca ctt tat tac tgt cag caa cat tat agc act cct ccg acg ttc Leu Ala Leu Tyr Tyr Cys Gln Gln His Tyr Ser Thr Pro Pro Thr Phe 1650 1655 1660	4992

Figure 2G

ggt g Gly G 1665	ga ggc ly Gly	acc Thr	Lys	ctg Leu 1670	gga Gly	atc Ile	aaa Lys	Arg	gct Ala 1675	Pro	G1 y 999	gga	tgt Cys	taa OCH 1680	5040
	et gat er Asp	Pro					Gly							Leu	5088
	ag gaa ys Glu					Lys					Lys		. Val		5136
	gg aaa rp Lys 1715	Gly			Phe					Trp					5184
-	ac agc sp Ser 30			Ile	_		_		Glu		_	_	_		5232
	t gtc al Val		Met					Pro					Lys		5280
ctg go Leu Al	c caa la Gln	His					Asp					Pro			5328
gtg at Val Il	e Arg	atc Ile 1780	gtc Val	gag Glu	cct Pro	Ser	tgg Trp 1785	gtg Val	ggc Gly	agc Ser	Asn	aac Asn 1790	gag Glu	tac Tyr	5376
cgc at Arg Il	c agc e Ser 1795	ctg Leu	gct Ala	aag Lys	Lys	ggc Gly .800	ggc Gly	ggc Gly	tgc Cys	Pro	ata Ile .805	atg Met	aac Asn	ctt Leu	5424
cac to His Se 181	r Glu	tac Tyr	acc Thr	Asn	tcg Ser .815	ttc Phe	gaa Glu	cag Gln	Phe	atc Ile 1820	gat Asp	cgt Arg	gtc Val	atc Ile	5472
tgg ga Trp Gl 1825	g aac u Asn	ttc Phe	Tyr	aag Lys .830	ccc Pro	atc Ile	gtt Val	Tyr	atc Ile 1835	ggt Gly	acc Thr	gac Asp	Ser	gct Ala 1840	5520
gaa ga Glu Gl	g gag u Glu	Glu	att Ile 845	ctc Leu	ctt Leu	gaa Glu	Val	tcc Ser .850	ctg Leu	gtg Val	ttc Phe	Lys	gta Val 1855	aag Lys	5568
gag tt Glu Ph	e Ala :	Pro 1860	Asp	Ala	Pro	Leu 1	Phe 865	Thr	Gly	Pro	Ala 1	Tyr 870	OCH	Asn	5616
acg at Thr Il	1875	Cys	Tyr	AMB	Tyr 1	Ile 880	Tyr	OCH	Ala	Leu 1	Asp 885	Ser	Val	Arg	5664
tgt tg Cys OP 189	A Phe	aca Thr	gac Asp	Asn	tgt Cys 895	tgt Cys	acg Thr	tat Tyr	Phe	aat Asn 900	aat Asn	tca Ser	tta Leu	aat Asn	5712

Figure 2H

tta taa tot tta ggg tgg tat gtt aga gcg aaa atc aaa tga ttt t Leu OCH Ser Leu Gly Trp Tyr Val Arg Ala Lys Ile Lys OPA Phe 1 1905 1910 1915 1	
gcg tct tta tat ctg aat tta aat att aaa tcc tca ata gat ttg t Ala Ser Leu Tyr Leu Asn Leu Asn Ile Lys Ser Ser Ile Asp Leu (1925 1930 1935	
aat agg ttt cga tta gtt tca aac aag ggt tgt ttt tcc gaa ccg a Asn Arg Phe Arg Leu Val Ser Asn Lys Gly Cys Phe Ser Glu Pro M 1940 1945 1950	
gct gga cta tct aat gga ttt tcg ctc aac gcc aca aaa ctt gcc a Ala Gly Leu Ser Asn Gly Phe Ser Leu Asn Ala Thr Lys Leu Ala I 1955 1960 1965	
tct tgt agc agc aat cta gct ttg tcg ata ttc gtt tgt gtt ttg t Ser Cys Ser Ser Asn Leu Ala Leu Ser Ile Phe Val Cys Val Leu F 1970 1975 1980	
tgt aat aaa ggt tcg acg tcg ttc aaa ata tta tgc gct ttt gta t Cys Asn Lys Gly Ser Thr Ser Phe Lys Ile Leu Cys Ala Phe Val F 1985 1990 1995 20	
ctt tca tca ctg tcg tta gtg tac aat tga ctc gac gta aac acg t Leu Ser Ser Leu Ser Leu Val Tyr Asn OPA Leu Asp Val Asn Thr L 2005 2010 2015	eu
aat aaa gct tgg aca tat tta aca tcg ggc gtg tta gct tta tta g Asn Lys Ala Trp Thr Tyr Leu Thr Ser Gly Val Leu Ala Leu Leu G 2020 2025 2030	Sly
cga tta tcg tcg tcc caa ccc tcg tcg tta gaa gtt gct tcc g Arg Leu Ser Ser Ser Gln Pro Ser Ser Leu Glu Val Ala Ser G 2035 2040 2045	lu
gac gat tit gcc ata gcc aca cga cgc cta tta att gtg tcg gct a Asp Asp Phe Ala Ile Ala Thr Arg Arg Leu Leu Ile Val Ser Ala A 2050 2055 2060	sn
acg tcc gcg atc aaa ttt gta gtt gag ctt ttt gga att att tct g Thr Ser Ala Ile Lys Phe Val Val Glu Leu Phe Gly Ile Ile Ser A 2065 2070 2075 20	.sp 80
tgc ggg cgt ttt tgg gcg ggt ttc aat cta act gtg ccc gat ttt ac Cys Gly Arg Phe Trp Ala Gly Phe Asn Leu Thr Val Pro Asp Phe Ac 2085 2090 2095	sn
tca gac aac acg tta gaa agc gat ggt gca ggc ggt ggt aac att to Ser Asp Asn Thr Leu Glu Ser Asp Gly Ala Gly Gly Gly Asn Ile So 2100 2105 2110	er
gac ggc aaa tct act aat ggc ggc ggt ggt gga gct gat gat aaa tc Asp Gly Lys Ser Thr Asn Gly Gly Gly Gly Gly Ala Asp Asp Lys Se 2115 2120 2125	er
acc atc ggt gga ggc gca ggc ggg gct ggc gga ggc gga ggc gg Thr Ile Gly Gly Gly Ala Gly	ga 6432 ly

Figure 2I

ggt ggt ggc ggt gat gca Gly Gly Gly Gly Asp Ala 2145 2150	Asp Gly Gly Leu Gly	tca aat gtc tct tta 6480 Ser Asn Val Ser Leu 2160
ggc aac aca gtc ggc acc Gly Asn Thr Val Gly Thr 2165	tca act att gta ctg Ser Thr Ile Val Leu 2170	gtt tcg ggc gcc gtt 6528 Val Ser Gly Ala Val 2175
ttt ggt ttg acc ggt ctg Phe Gly Leu Thr Gly Leu 2180	aga cga gtg cga ttt Arg Arg Val Arg Phe 2185	ttt tcg ttt cta ata 6576 Phe Ser Phe Leu Ile 2190
gct tcc aac aat tgt tgt Ala Ser Asn Asn Cys Cys 2195	ctg tcg tct aaa ggt Leu Ser Ser Lys Gly 2200	gca gcg ggt tga ggt 6624 Ala Ala Gly OPA Gly 2205
tcc gtc ggc att ggt gga Ser Val Gly Ile Gly Gly 2210	Ala Gly Gly Asn Ser	
ggt ggt ggt gga ggc gct Gly Gly Gly Gly Ala 2225 2230	Gly Met Leu Gly Thr	
ggc ggt gcc gcc ggt ata Gly Gly Ala Ala Gly Ile 2245		
att gtg ggc acc ggc gca Ile Val Gly Thr Gly Ala 2260		
ctg ctt cga ggc agc gct Leu Leu Arg Gly Ser Ala 2275		
gaa tac aaa tcg taa aaa Glu Tyr Lys Ser OCH Lys 2290	Ser Ala Ile Ser Ile	
ttt acc gtg ccg ata ttt Phe Thr Val Pro Ile Phe 2305 2310	aac aac cgc tca atg Asn Asn Arg Ser Met 2315	taa gca att gta ttg 6960 OCH Ala Ile Val Leu 2320
taa aga gat tgt ctc aag OCH Arg Asp Cys Leu Lys 2325	ctc cgc acg ccg ata Leu Arg Thr Pro Ile 2330	aca agc ctt ttc att 7008 Thr Ser Leu Phe Ile 2335
ttt act aca gca ttg tag Phe Thr Thr Ala Leu AMB 2340	tgg cga gac act tcg Trp Arg Asp Thr Ser 2345	ctg tcg tcg acg tac 7056 Leu Ser Ser Thr Tyr 2350
atg tat gct ttg ttg tca Met Tyr Ala Leu Leu Ser 2355	aaa acg tcg ttg gca Lys Thr Ser Leu Ala 2360	agc ttt aaa ata ttt 7104 Ser Phe Lys Ile Phe 2365
aaa aga aca tot otg tto Lys Arg Thr Ser Leu Phe 2370	Ser Thr Thr Val Leu	tcg taa atg ttg ttt 7152 Ser OCH Met Leu Phe 380

Figure 2J

Leu Ile Ile Cys Ala S	tcc gca gta tcg aca Ser Ala Val Ser Thr 390	cgt tca aaa aat tga tgc 7200 Arg Ser Lys Asn OPA Cys 2395 2400
gca tca att ttg ttg t Ala Ser Ile Leu Leu I 2405	ttc cta tta ttg aat Phe Leu Leu Leu Asn 2410	aaa taa gat tgt aca gat 7248 Lys OCH Asp Cys Thr Asp 2415
tca tat cta cga ttc g Ser Tyr Leu Arg Phe V 2420	gtc atg gcc acc aca Val Met Ala Thr Thr 2425	aat gct acg ctg caa acg 7296 Asn Ala Thr Leu Gln Thr 2430
ctg gta caa ttt tac g Leu Val Gln Phe Tyr C 2435	gaa aac tgc aaa aac Glu Asn Cys Lys Asn 2440	gtc aaa act cgg tat aaa 7344 Val Lys Thr Arg Tyr Lys 2445
		att tta tcg cac aag ccc 7392 Ile Leu Ser His Lys Pro 2460
Thr Ser Lys Leu Tyr I	Leu Gln Lys Thr Ile	tcg gcg cac aat ttt aac 7440 Ser Ala His Asn Phe Asn 2475 2480
		agc gac cac cca aat ttt 7488 Ser Asp His Pro Asn Phe 2495
		aac aac caa gtg atc gtg 7536 Asn Asn Gln Val Ile Val 2510
		gaa aca cta caa att aaa 7584 Glu Thr Leu Gln Ile Lys 2525
		att att aga cag ctg tgt 7632 Ile Ile Arg Gln Leu Cys 2540
Glu Ala Leu Asn Asp I	Leu His Lys His Asn	ttc ata cac aac gac ata 7680 Phe Ile His Asn Asp Ile 2555 2560
aaa ctc gaa aat gtc t Lys Leu Glu Asn Val I 2565	ta tat ttc gaa gca Leu Tyr Phe Glu Ala 2570	ctt gat cgc gtg tat gtt 7728 Leu Asp Arg Val Tyr Val 2575
tgc gat tac gga ttg t Cys Asp Tyr Gly Leu C 2580	gc aaa cac gaa aac Cys Lys His Glu Asn 2585	tca ctt agc gtg cac gac 7776 Ser Leu Ser Val His Asp 2590
Gly Thr Leu Glu Tyr F 2595	Phe Ser Pro Glu Lys 2600	att cga cac aca act atg 7824 Ile Arg His Thr Thr Met 2605
cac gtt tcg ttt gac t His Val Ser Phe Asp T		

Figure 2K

ccg gcg gtt cgt aat cat ggt cat agc tgt ttc ctg tgt gaa att gtt Pro Ala Val Arg Asn His Gly His Ser Cys Phe Leu Cys Glu Ile Val 2625 2630 2635 2640	7920
atc cgc tca caa ttc cac aca aca tac gag ccg gaa gca taa agt gta Ile Arg Ser Gln Phe His Thr Thr Tyr Glu Pro Glu Ala OCH Ser Val 2645 2650 2655	7968
aag cct ggg gtg cct aat gag tga gct aac tca cat taa ttg cgt tgc Lys Pro Gly Val Pro Asn Glu OPA Ala Asn Ser His OCH Leu Arg Cys 2660 2665 2670	8016
gct cac tgc ccg ctt tcc agt cgg gaa acc tgt cgt gcc agc tgc att Ala His Cys Pro Leu Ser Ser Arg Glu Thr Cys Arg Ala Ser Cys Ile 2675 2680 2685	8064
aat gaa tog goo aac gog ogg gga gag gog gtt tgo gta ttg ggo got Asn Glu Ser Ala Asn Ala Arg Gly Glu Ala Val Cys Val Leu Gly Ala 2690 2695 2700	8112
ctt ccg ctt cct cgc tca ctg act cgc tgc gct cgg tcg ttc ggc tgc Leu Pro Leu Pro Arg Ser Leu Thr Arg Cys Ala Arg Ser Phe Gly Cys 2705 2710 2715 2720	8160
ggc gag cgg tat cag ctc act caa agg cgg taa tac ggt tat cca cag Gly Glu Arg Tyr Gln Leu Thr Gln Arg Arg OCH Tyr Gly Tyr Pro Gln 2725 2730 2735	8208
aat cag ggg ata acg cag gaa aga aca tgt gag caa aag gcc agc aaa Asn Gln Gly Ile Thr Gln Glu Arg Thr Cys Glu Gln Lys Ala Ser Lys 2740 2745 2750	8256
agg cca gga acc gta aaa agg ccg cgt tgc tgg cgt ttt tcc ata ggc Arg Pro Gly Thr Val Lys Arg Pro Arg Cys Trp Arg Phe Ser Ile Gly 2755 2760 2765	8304
tec gee eee etg aeg age ate aca aaa ate gae get caa gte aga ggt Ser Ala Pro Leu Thr Ser Ile Thr Lys Ile Asp Ala Gln Val Arg Gly 2770 2775 2780	8352
ggc gaa acc cga cag gac tat aaa gat acc agg cgt ttc ccc ctg gaa Gly Glu Thr Arg Gln Asp Tyr Lys Asp Thr Arg Arg Phe Pro Leu Glu 2785 2790 2795 2800	8400
gct ccc tcg tgc gct ctc ctg ttc cga ccc tgc cgc tta ccg gat acc Ala Pro Ser Cys Ala Leu Leu Phe Arg Pro Cys Arg Leu Pro Asp Thr 2805 2810 2815	8448
tgt ccg cct ttc tcc ctt cgg gaa gcg tgg cgc ttt ctc ata gct cac Cys Pro Pro Phe Ser Leu Arg Glu Ala Trp Arg Phe Leu Ile Ala His 2820 2825 2830	8496
gct gta ggt atc tca gtt cgg tgt agg tcg ttc gct cca agc tgg gct Ala Val Gly Ile Ser Val Arg Cys Arg Ser Phe Ala Pro Ser Trp Ala 2835 2840 2845	8544
gtg tgc acg aac ccc ccg ttc agc ccg acc gct gcg cct tat ccg gta Val Cys Thr Asn Pro Pro Phe Ser Pro Thr Ala Ala Pr Tyr Pro Val 2850 2855 2860	8592

Figure 2L

act atc gtc ttg agt of Thr Ile Val Leu Ser I	cca acc cgg taa Pro Thr Arg OCH 370	gac acg act tat Asp Thr Thr Tyr 2875	cgc cac tgg Arg His Trp 2880	8640
cag cag cca ctg gta a Gln Gln Pro Leu Val 1 2885	Thr Gly Leu Ala	gag cga ggt atg Glu Arg Gly Met 2890	tag gcg gtg AMB Ala Val 2895	8688
cta cag agt tct tga a Leu Gln Ser Ser OPA S 2900	agt ggt ggc cta Ser Gly Gly Leu 2905	Thr Thr Ala Thr	cta gaa gga Leu Glu Gly 2910	8736
cag tat ttg gta tct g Gln Tyr Leu Val Ser A 2915	gcg ctc tgc tga Ala Leu Cys OPA 2920	agc cag tta cct Ser Gln Leu Pro 2925	tcg gaa aaa Ser Glu Lys	8784
gag ttg gta gct ctt g Glu Leu Val Ala Leu A 2930				8832
gtt ttt ttg ttt gca a Val Phe Leu Phe Ala S 2945 29			- -	8880
aag aag atc ctt tga t Lys Lys Ile Leu OPA S 2965	Ser Phe Leu Arg			8928
aaa act cac gtt aag g Lys Thr His Val Lys G 2980		OPA Asp Tyr Gln		8976
tca cct aga tcc ttt t Ser Pro Arg Ser Phe C 2995				9024
gta tat atg agt aaa c Val Tyr Met Ser Lys I 3010				9072
agg cac cta tct cag c Arg His Leu Ser Gln A 3025 30	ga tot gto tat urg Ser Val Tyr 30	ttc gtt cat cca Phe Val His Pro 3035	tag ttg cct AMB Leu Pro 3040	9120
gac tcc ccg tcg tgt a Asp Ser Pro Ser Cys A 3045	rg OCH Leu Arg	tac ggg agg gct Tyr Gly Arg Ala	tac cat ctg Tyr His Leu 3055	9168
gcc cca gtg ctg caa t Ala Pro Val Leu Gln 0 3060	ga tac cgc gag PA Tyr Arg Glu 3065	Thr His Ala His	cgg ctc cag Arg Leu Gln 3070	9216
att tat cag caa taa a Ile Tyr Gln Gln OCH T 3075	cc agc cag ccg hr Ser Gln Pro 3080	gaa ggg ccg agc Glu Gly Pro Ser 3085	gca gaa gtg Ala Glu Val	9264
gtc ctg caa ctt tat c Val Leu Gln Leu Tyr P 3090	ro Pro Pro Ser 3095	agt cta tta att Ser Leu Leu Ile 3100	gtt gcc ggg Val Ala Gly	9312

Figure 2M

aag cta gag taa gta gtt Lys Leu Glu OCH Val Val 3105 3110	Arg Gln Leu Il	a gtt tgc gca a e Val Cys Ala T 3115	trg trg trg 9360 Thr Leu Leu 3120
cca ttg cta cag gca tcg Pro Leu Leu Gln Ala Ser 3125	tgg tgt cac gc Trp Cys His Al 313	a Arg Arg Leu V	ta tgg ctt 9408 Val Trp Leu 3135
cat tca gct ccg gtt ccc His Ser Ala Pro Val Pro 3140		y Glu Leu His A	
tgt tgt gca aaa aag cgg Cys Cys Ala Lys Lys Arg 3155	tta gct cct tc Leu Ala Pro Se 3160	g gtc ctc cga t r Val Leu Arg S 3165	cg ttg tca 9504 er Leu Ser
gaa gta agt tgg ccg cag Glu Val Ser Trp Pro Gln 3170			
ata att ctc tta ctg tca Ile Ile Leu Leu Leu Ser 3185 3190	Cys His Pro OC		
gtg agt act caa cca agt Val Ser Thr Gln Pro Ser 3205		n Ser Val Cys G	
gtt gct ctt gcc cgg cgt Val Ala Leu Ala Arg Arg 3220			is Ile Ala
gaa ctt taa aag tgc tca Glu Leu OCH Lys Cys Ser 3235			
tct caa gga tct tac cgc Ser Gln Gly Ser Tyr Arg 3250			
gtg cac cca act gat ctt Val His Pro Thr Asp Leu 3265 3270			
ggt gag caa aaa cag gaa Gly Glu Gln Lys Gln Glu 3285	Gly Lys Met Pro	o Gln Lys Arg G 0	lu OCH Gly 3295
cga cac gga aat gtt gaa Arg His Gly Asn Val Glu 3300	Tyr Ser Tyr Se:	r Ser Phe Phe A 33:	sn Ile Ile 10
gaa gca ttt atc agg gtt Glu Ala Phe Ile Arg Val 3315	Ile Val Ser OPA 3320	A Ala Asp Thr Ty 3325	yr Leu Asn
gta ttt aga aaa ata aac Val Phe Arg Lys Ile Asn 3330	aaa tag ggg tto Lys AMB Gly Pho 3335	c cgc gca cat to e Arg Ala His Ph 3340	ce ece gaa 10032 ne Pro Glu

Figure 2N

_	Cys		_	Thr		_			Leu			_		taa OCH		10080
			Gly					Pro						ser 3375	Val	10128
_		Val				_	Thr	_				Arg		tca Ser	_	10176
	Val					Pro					Pro			gcg Ala		10224
Gln					Gly					Leu				cat His		10272
agc Ser 342	Arg	ttg Leu	tac Tyr	OPA	gag Glu 430	tgc Cys	acc Thr	ata Ile	Cys	ggt Gly 8435	gtg Val	aaa Lys	tac Tyr	cgc Arg	aca Thr 3440	10320
gat Asp	gcg Ala	taa OCH	Gly	gaa Glu 445	aat Asn	acc Thr	gca Ala	Ser	ggc Gly 450	gcc Ala	att Ile	cgc Arg	His	tca Ser 3455	ggc Gly	10368
tgc Cys	gca Ala	Thr	gtt Val 460	ej aaa	aag Lys	ggc	Asp	egg Arg 465	tgc Cys	999. Gly	cct Pro	Leu	cgc Arg 470	tat Tyr	tac Tyr	10416
gcc Ala	Ser	tgg Trp 475	cga Arg	aag Lys	GJA aaa	Asp	gtg Val 480	ctg Leu	caa Gln	ggc Gly	Asp	taa OCH 485	gtt Val	G1 <i>y</i>	taa OCH	10464
Arg	cag Gln 490	ggt Gly	ttt Phe	ccc Pro	Ser	cac His . 495	gac Asp	gtt Val	gta Val	Lys	cga Arg 500	cgg Arg	cca Pro	gtg Val	cc	10511

Fig.3

clonetherapt.99B3 :

VH sequence :

GAGGTGAAGCTTCTCCAGTCTGGAGGTGGCCTGGTGCAGCCTGGAGGATCCCTGAAACT CTCCTGTGCAGCCTCAGGAATCGATTTTAGTAGATACTGGATGAGTTGGGTTCGGCGG CTCCAGGGAAAGGACTAGAATGGATTGGAGAAATTAATCCAGATAGCAGTACAATAAAC TATGCACCATCTCTAAAGGATAAATTCATCATCTCCAGAGACAACGCCAAAAATACGCT GTACCTGCAAATGAGCAAAGTGAGATCTGAGGACACAGCCCTTTATTACTGTGCAAGAG GACTGGGACAGAACTTGACTACTGGGGCCAAGGCACCACTCTCACAGTCTCCTCA

VL sequence :

Fig.4

clonetherapt.88E10 :

VH sequence :

GAGGTGAAGCTGGTGGAGTCTGGAGGAGGCTTGGTACAGCCTGGGGGTTCTCTGAGTCT
CTCCTGTGCAGCTTCTGGATTCACCTTCACTGATTACTCCATGAACTGGGTCCGCCAGC
CTCCAGGGAAGACACTTGAGTGGTTGGCTTTTATTAGAAACAAAGCTAATGGTTACACA
GCAGAGTACAGTGCATCTGTGAAGGGTCGGTTCTCCATCTCCAGAGATAATTCCCAAAG
CATCCTCTATCTTCAAATGAATGCCCTGAGAGCTGAGGACAGTGCCACTTATTACTGTG
CAAGGGGATGGTATGCTATGGACTACTGGGGTCAAGGAACCTCAGTCACCGTCTCCTCA

Fig.5

clonetherapt.152C3:

VH sequence :

GAGGTTCTGCTGCAGCAGTCTGTGGCAGAGCTTGTGAGGCCAGGGGCCTCAGTCAAGTT
GTCCTGCATAGTTCTGACTTCAACATTAAACACACCTATATGCACTGGGTGAAACAGA
GGCCTGATCAGGGCCTGGAGTGGATTGGAAGGATTGATCCTGCGAATGGTAAAACTATA
TATGCCCCGACGTTCCAGGGCAAGGCCACTATAACTGCGGACACATCCTCCAACACAGC
CTACCTGCATTTCAGCAGCCTGACATCTGAGGACGCTGCCATCTATTACTGTGCTAGAG
CTGGGGCTGGCTACTTTGACTACTGGGGCCAAGGCACCACTCTCACAGTCTCCTCA

VL sequence :

GACATCTTGCTGACTCAGTCTCCAGCCATCCTGTCTGTGAGTCCAGGAGAAAGAGTCAG TTTCTCCTGCAGGGCCAGTCAGAACATTGGCACAAGTATTTACTGGTATCAGCAAAGAA CAAATGGTTCTCCAAGGCTTCTCATAAAGTATGTTTCTGAGTCTATCTCTGGGATCCCT TCCAGGTTTAGTGGCAGTGGATCAGGGACAGAGTTTACTCTTAGCATCAACAGTGTGGA GTCTGAAGATATTGCAGATTATTACTGTCAACAAAGTCATAGTTGGCCGCTCACGTTCG GTGCTGGGACCAAGCTGGAGCTGAAA

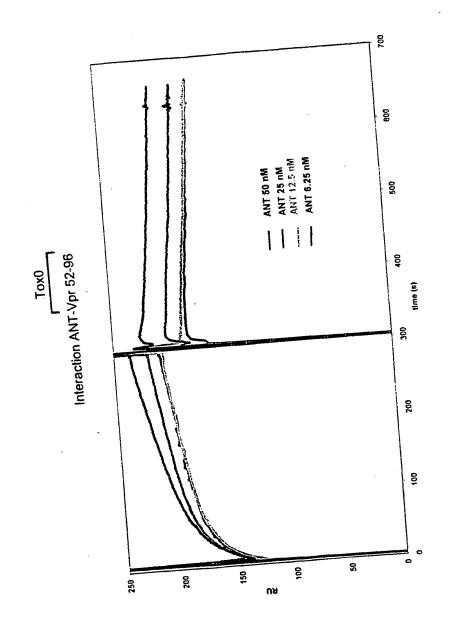
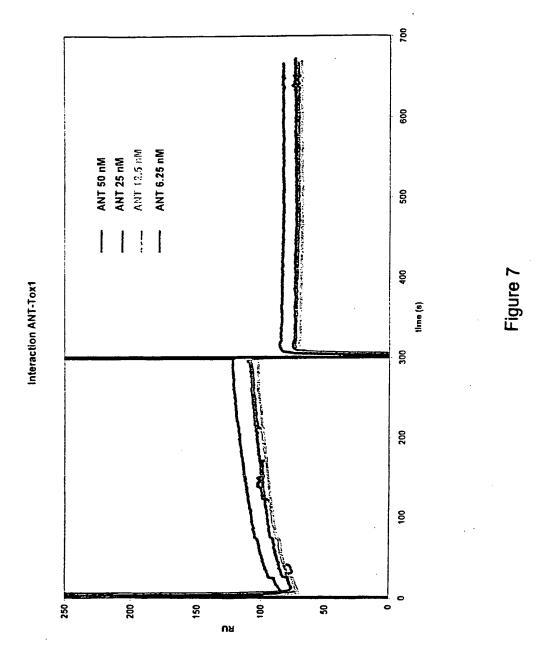
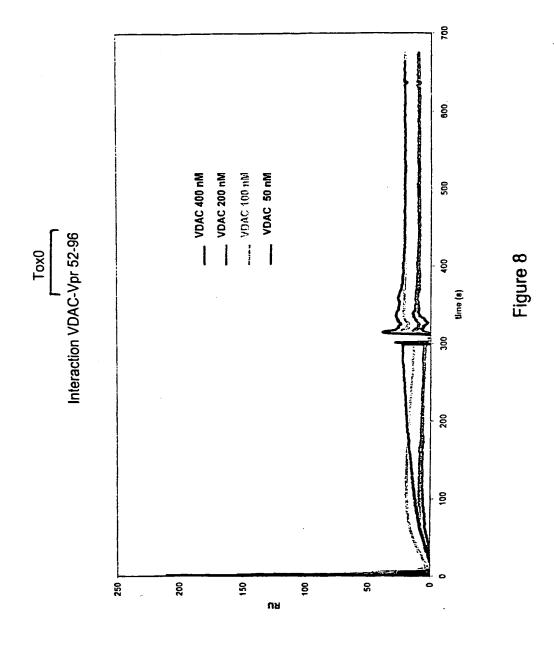
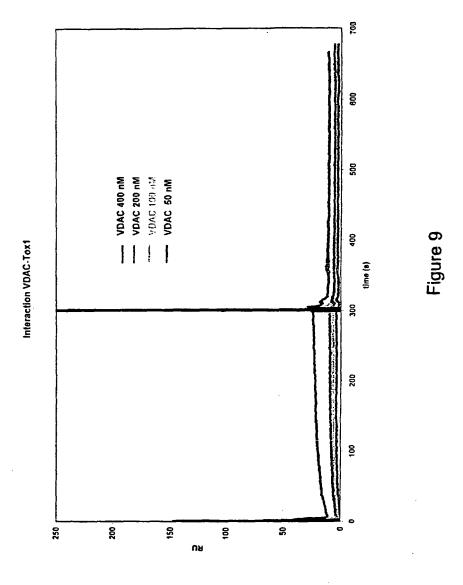


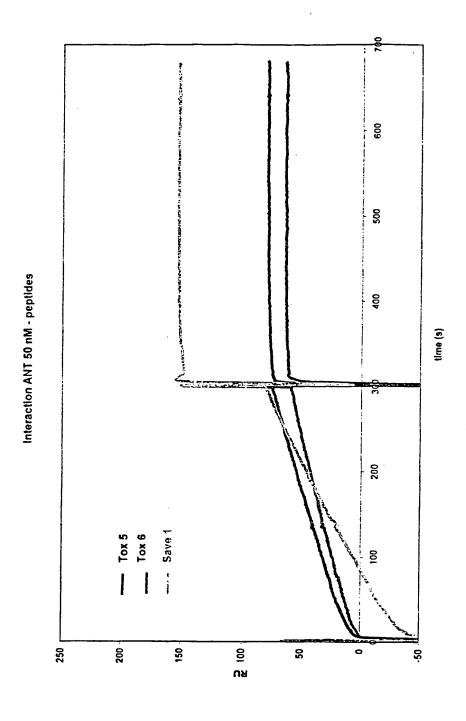
Figure 6



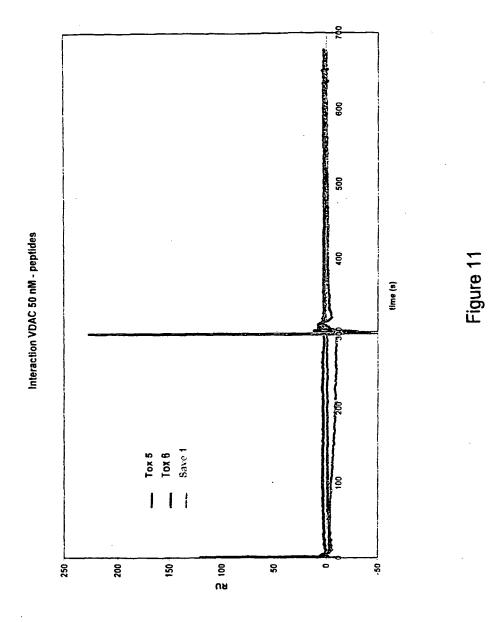


SUBSTITUTE SHEET (RULE 26)





-igure 10



Second Step:

Figure 12: Obtention of the VH/VL chimeric DNA

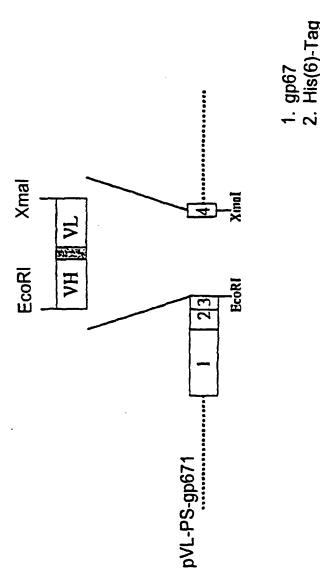


Figure 13: Map of the ScFv transfert vector